

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
28 July 2005 (28.07.2005)

PCT

(10) International Publication Number  
**WO 2005/068499 A1**

- (51) International Patent Classification<sup>7</sup>: **C07K 14/495**, C12N 15/62, 5/10
- (21) International Application Number: PCT/US2005/000378
- (22) International Filing Date: 6 January 2005 (06.01.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/534,379 6 January 2004 (06.01.2004) US  
60/575,839 2 June 2004 (02.06.2004) US
- (71) Applicant (for all designated States except US): THE GOVERNMENT OF THE UNITED STATES AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH & HUMAN SERVICES [US/US]; 6011 Executive Boulevard, Suite 325, Rockville, MD 20852-3804 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SUN, Peter, Daopin [US/US]; 17032 Flatwood Drive, Derwood, MD 20855 (US). ZOU, Zongcheng [CN/US]; 5509 Halpine Place, Apt. B, Rockville, MD 20851 (US).
- (74) Agents: CALDWELL, John, W. et al.; Woodcock Washburn LPP, One Liberty Place, Floor 46, Philadelphia, PA 19103 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/068499 A1

(54) Title: COMPOSITIONS AND METHODS FOR THE HIGH EFFICIENCY EXPRESSION OF THE TRANSFORMING GROWTH FACTOR-BETA SUPERGENE FAMILY

(57) Abstract: Novel compositions and methods for the high efficiency production of the transforming growth factor-beta (TGF $\beta$ ) supergene family of peptide growth factors are provided.